



**CERTIFICATE OF ANALYSIS  
MERAKE MAMA BOTANICALS**

**Liposomal Zen (Broad Spetrum Hemp Botanical Blend)**

**GENERAL INFORMATION**

<b>Lot Number</b>	1092408	<b>Serving Size</b>	3 milliliters
<b>Manufacture Date</b>	10/4/2021	<b>Product Form</b>	Liquid
<b>Identity</b>	<b>Specification</b>	<b>Results</b>	<b>Method</b>
Appearance	Burgundy/Dark Red/Brown	Complies	Organoleptic
Taste	Bitter, Fruity, Citrus	Complies	Organoleptic
Known Allergens	Absent	None	-

**HEAVY METALS**

<b>Analysis</b>	<b>U/M</b>	<b>Specifications</b>	<b>Results</b>	<b>Method // Test Type</b>
Lead (Pb)	ppm	<4.00	<0.009	AOAC 993.14 // ICP-MS
Arsenic (As)	ppm	<4.00	<0.016	AOAC 993.14 // ICP-MS
Cadmium (Cd)	ppm	<4.00	<0.008	AOAC 993.14 // ICP-MS
Mercury (Hg)	ppm	<2.00	0.001	EPA 7473 // DMA

**MICROBIOLOGICAL**

Total Plate Count	cfu/g	<10000 (10 <sup>4</sup> )	10	USP <2021> // GL-411
Coliforms	cfu/g	<1000 (10 <sup>3</sup> )	<10	AOAC 991.14 // GL-420
Yeast and Molds	cfu/g	<1000 (10 <sup>3</sup> )	<10	AOAC 2014.05 // GL-451
E.coli.	cfu/25g	NEGATIVE	NEGATIVE	USP <2022> // GL-423
Salmonella	cfu/25g	NEGATIVE	NEGATIVE	USP <2022> // GL-461
Staphylococcus aureus	cfu/25g	NEGATIVE	NEGATIVE	USP <2022> // GL-441

**ACTIVE COMPONENT ANALYSIS**

CBD (Cannabidiol)	mg/serving size	13.33	17.04	TM14 (HPLC-DAD)
CBG (Cannabigerol)	mg/serving size	0.67	0.93	TM14 (HPLC-DAD)
Choline Bitartrate	mg/serving size	25	72.80	UPLC // GL-645

**PACKING & STORAGE** Store in cool dry location, away from moisture, light, and heat. Refrigeration after opening is suggested

Meraki Wellness LLC

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<http://merakimamabotanicals.com/>